

Tetra Tech, Inc.

4213 State Street, Suite 100 Santa Barbara, CA 93110-2847 VOICE (805) 681-3100 FAX (805) 681-3108 Project: Vandenberg Air Force Base IRP

Log of Well No. 35-MW-9

Location: OU4, Site 35, approx. 450 ft southwest of El Rancho Oeste Road, and approx. 1,350 ft southwest of Building 1930.

Date Started:	3/11/9	8	Completed	: 3/12/	/98
Logged By:	J. Bonel Harting		Checked B	y: K. Mo	Namara, R.G
Drilled By:	B. Carpe	enter,	S/G Testin	ng	KM # 6678
Drilling Equi	pment:	СМЕ	75, 6-inch	and 10-i	nch HSA
Sampling Eq	uipment:	11/2	e-inch I.D.	Split Spo	oon
GS Elev.:	346.8	ft abo	ove MSL	TD:	20.5 ft bgs

4" PVC Bank Casing:	from	0 ft bgs to	5 ft bgs
0.01" Screened Casing:	from	5 ft bgs to	10 ft bgs
Bentonite/Cement Grout:	from	0 ft bgs to	3 ft bgs
Bentonite Transitional Seal:	from	3 ft bgs to	4 ft bgs
2/12 Sand Filter Pack:	from	4 ft bgs to	12 ft bgs

T0C Elev.: 349.86 ft above MSL Well Construction Depth ft bgs) MATERIAL DESCRIPTION REMARKS

ŎĔ	WATERIAL DESCRIPTION	Mat	Mat				San	\$ \overline{\ove	Per Reco	PID (REMARKS
-	silty sand, brown (10YR 5/3), fine grained, poorly graded, wet, little silt, alluvium.		SM							1.7/3.8	Start drilling 0950. Logged from cuttings at surface.
5 -	sandy silt, strong brown (7.5YR 5/6), medium stiff, moist, some fine grained sand, few clay, alluvium.		ML								Logged from cuttings at 3 ft.
-	silty sand, light gray (10YR 7/2), fine grained, poorly graded, medium dense, moist, alluvium.		SM					3 5 9	50	0/	
10	clayey sand, gray (5YR 5/1), fine grained, poorly graded, medium dense, moist, little silt, alluvium. silty clay, olive gray (5Y 5/2), hard, moist, possible weathered bedrock.		SC ≩ CL					2	100	17.6/	Distinct contact at
	shale, light gray (2.5Y 7/2), hard, dry, Sisquoc Formation.		 Shale					7		0	Drilled to 20.5 ft in original boring.
15 -								4 7 12	100	13.6/ 0.4	No distinct groundwater zone encountered. Moved approx. 5 ft north and drilled 10-inch hole to 12 ft. Constructed 4-inch well. Boring log shown
20	Croundwater doubt desire deillie 20001		Cons					37			is from original
20 Penetration. Fig. Penetration.											



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Depth (ft. bgs)	MATERIAL DESCRIPTION	Material Symbol	Material Type	Const	ruction	Sample	Blow Counts per 6"	Percent Recovery	PID (ppm) Amb/Smp	REMARKS
20	shale, light gray (5Y 7/1), very stiff, wet, mottled, dark brown (7.5 YR 5/6) and black (7.5 YR 2.5/1), Sisquoc Formation.		Shale		Ē			100		Total depth of original hole at 20.5 ft. Grouted original hole from TD to surface.
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